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CASTLE DONINGTON

RURAL DISTRICT COUNCIL

#### ANNUAL REPORT

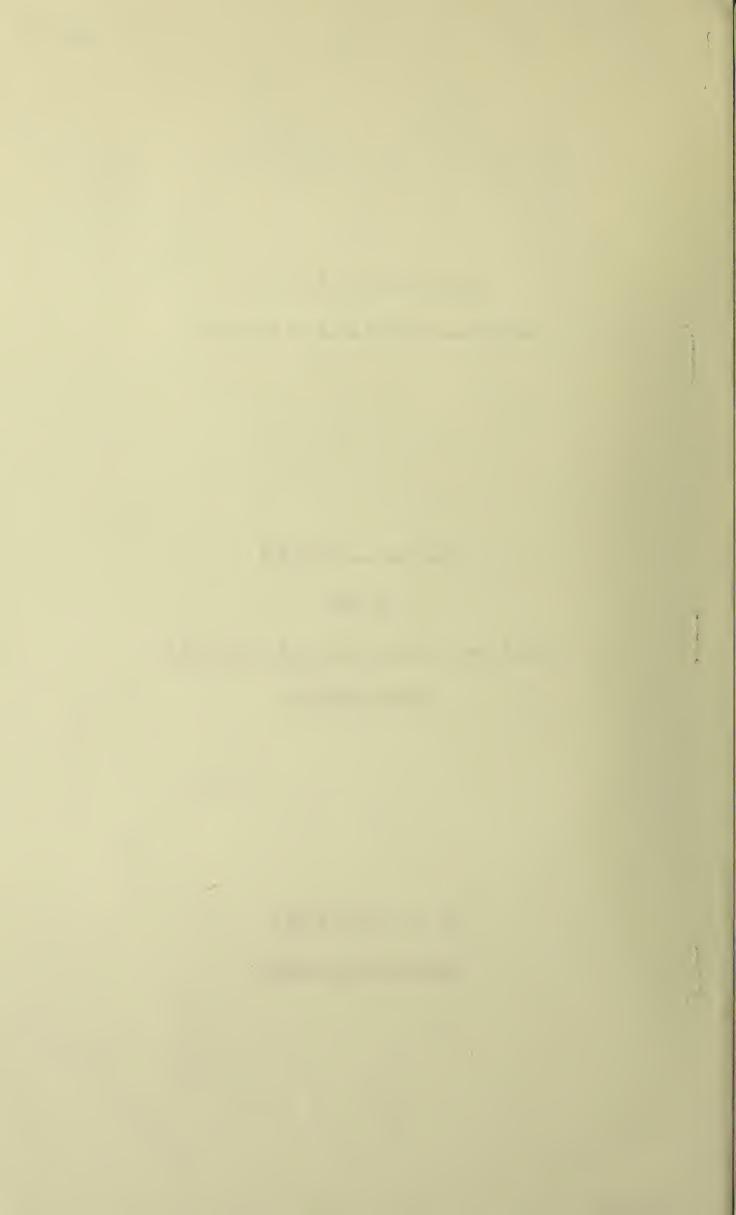
OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1949.

T. M. MONTFORD

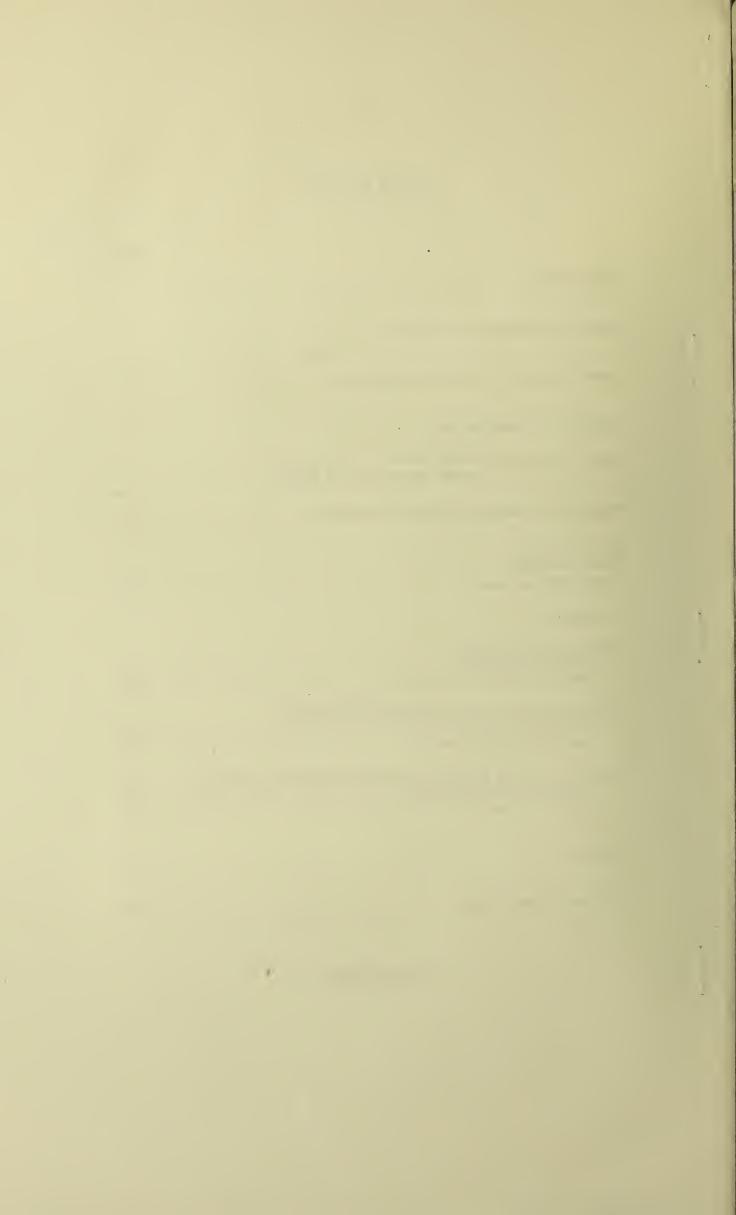
MEDICAL OFFICER OF HEALTH



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Public Health Department, Council Offices, CASTLE DONINGTON.

8th August, 1950.

TO THE CHAIRMAN AND MEMBERS OF THE CASTLE DONINGTON RURAL DISTRICT COUNCIL

Mr. Chairman, Mrs. Powell Heath and Gentlemen,

Following the custom adopted in recent years this annual report deals briefly with matters of public health within my responsibility.

The general standard of health of the people living in our district was high. There were no serious outbreaks of infectious disease and only one hundred and forty-seven cases were notified. This was nearly a hundred fewer than in the preceding year. The improvement resulted mainly from the fall in the measles and whooping cough figures. In 1948 there were one hundred and thirty-three cases of measles and in the year in review only fifty-one. Whooping cough notifications fell from fifty-five to forty-one. Our peak figure for measles occurred in 1947 when there were two hundred and fourteen cases. As will be seen elsewhere in the report our rates for measles per thousand of the whole population compare most favourably with the population rates for England and Wales. There were no deaths from either measles or whooping cough.

The figures: for pneumonia, scarlet fever, puerpural pyrexia and erysipelas were almost the same as in the year before.

As far as the distribution of zymotic diseases was concerned, the only striking features were the occurrence of twenty-three cases of scarlet fever out of thirty-six in Kegworth and of eighteen cases of whooping cough in Long Whatten out of forty-one.

There were no cases of infantile paralysis.

It will be recalled that in 1948 there was a case of typhoid fever in Charley. Despite prolonged investigations, in which we were greatly aided by the Medical Director of the Emergency Public Health Laboratory, no source of the infection was discovered, nor were there any further cases.

No cases of diphtheria occurred. The immunisation against this disease is now the responsibility of the County Council Health Department, but is carried out as before by the family doctors. The table on immunisation which I have incorporated in my report was compiled by the County Medical Officer of Health.

The comparative vital statistics were of considerable interest. Although there was an increase in the death rate from 10 per thousand of our rural population in 1948 to 10.6, nevertheless this compared favourably with the figure of 11.7 for England and Wales as a whole. In 1948 our rate was 0.8 less than England and Wales.

The infantile death rate, representing six deaths of children under one year of age, was 21 per thousand live births. In 1948 the rate was 28 and in the previous year it was 47. The 1949 rate for England and Wales was 32.

There were a hundred and forty-five live births which was thirty-four fewer than in 1948 and which produced a fall in our birth rate from 19.5 per thousand of the total population to 14.9. The rate for England and Wales was 16.7. In 1948 our rate was 1.6 higher than that for England and Wales. Our still birth rate, however, of 0.32 was a considerable improvement on the 0.65 rate for the year before and was slightly better than the figure for England and Wales, which was 0.39.

Throughout the year the water supply was satisfactory both in quality and quantity. The supply was received from three separate sources, the Water Authorities in each case carrying out periodic analyses at least once a month. As requested by the Minister analytical reports are included in the appendage.

I am,

Your obedient servant,

T. M. MONTFORD,

Medical Officer of Health.

# ZYMOTIC DISEASES IN THE VILLAGES COMPRISING

#### THE RURAL DISTRICT.

# YEAR 1949.

Village	Measles	Puerpural Pyrexia	Scarlet Fever	Pneumonia	Whooping Cough	Erysipelas	Total
Castle Donington	21	1	4	12	13	1	52
Kegworth	16		23	1	8		48
Hemington	6		2				8
Lockington			1	1			2
Diseworth				1	l		2
Long Whatton					18		18
Breedon-on- the-Hill	3 .			1	1		5
Belton			6				6
Wilson	3						3
Charley				1			1
Isley Walton	2						2
Totals	51	1	36	17	41	1	147

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# ZYMOTIC DISEASE.

## NOTIFICATION RATES PER 1,000 POPULATION.

Notifications	Castle Donington Rural District Council		England and Wales	Great Towns	- Smaller Towns
Primary Pneumonia	<u>1949</u> 1.80	<u>1948</u> 1.84	<u>1949</u> 0.80	<u>1949</u> 0.91	1949 0•65
Scarlet Fever	3.82	3.36	1.63	1.72	1.83
Erysipelas	0.11	0.11	0.19	0.20	0.19
Whooping Cough	4•35	5•97	2.39	2.44	2.39
Measles	5.41	14.45	8.95	8.91	9.18
Diphtheria	nil	nil	O • O <sup>2</sup> +	0.05	0.04
Typhoid	nil	0.11	0.01	0.01	0.01
Paratyphoid	nil	nil	0.01	0.02	0.01
Poliomyelitis	nil	0.11	0.13	0.13	0.12

CASTLE DONINGTON RURAL DISTRICT

NUMBER OF CHILDREN WHO WERE IMMUNISED DURING THE PERIOD 1st JANUARY - 31st DECEMBER, 1949.

H		
14	1	1
13	ı	1
12	Н	N
11	1,	H
1939	N	<b>-</b> -1
9	Н	1
8	1	l
7	н	7
6 1943	2	76
5	5	12
4 1945	~	N
ler 1 1 2 3 1949 1949 1946	9	1
2 1947	77	1
1 1948	97.	1
Under 1	٧	ı
Age at 31.12.49	Primary	Booster Dose

#### VITAL STATISTICS.

# Civilian Population.

9,422

## Comparability Factor.

1.00

#### LIVE BIRTHS.

Total Legitimate Illegitimate	M. 75 70 5	F. 65 62 3
-------------------------------------	------------	---------------------

## STILL BIRTHS.

|--|

## DEATHS OF INFANTS UNDER 1 YEAR OF AGE.

Total	M.	F.
Legitimate	2	1
Illegitimate	2	1

# DEATH RATES PER 1,000 OF THE POPULATION.

Diseases	Castle Donington Rural District Council	England and Wales	Great Towns	Small Towns		
All Causes	Causes 10.6 11.7 12.5		12.5	11.6		
Tuberculosis	0.2	0.45	0.52	0.42		
Influenza	0.2	0.15	0.15	0.14		
Pneumonia	0.1	0.51	0.56	0.49		
	BIRTH RATES PER 1	,000 OF THE PO	PULATION,			
Live Births	14.9	16.7	18.7	18.0		
Still Births	0.32	0.39	0.47	0.40		
	DEATH RATE PER 1,000 LIVE BIRTHS UNDER ONE YEAR.					
-	21	32	37	30		

#### WATER SUPPLY.

Two samples were taken by our own staff from piped supplies in the rural district, one was taken in Castle Donington and one in Belton. Both were bacteriologically satisfactory and there was no plumbo-solvent action.

Reports from the supplying authorities are shown in the subsequent pages.

# PARTICULARS OF WATER SUPPLIES FROM PUBLIC MAINS.

Parish	No. of Houses	Direct	Standpipes	Private Supply	No Supply.
Castle Donington No. 4 Site Kegworth Belton Breedon-on-the-Hill Charley Isley-cum-Langley No. 1 Site Lockington/Hemington Long Whatton Diseworth	866 13 775 177 217 81 26 14 161	811 13 695 147 185 - 11 14 135 148 83	38  62 6   5 19	- - 7 - 1	17 - 18 24 25 81 5 - 21 50 41
TOTAL	2,671	2,242	130	7 1	5 277

These figures do not include the National Service Hostel, Castle Donington, where the huts are in intermittent occupation

#### POPULATION.

Parish	Estimated Population	Direct	Standpipes	Private Supply	No Supply
Castle Donington No. 4 Site Kegworth Belton Breedon-on-the-Hill Charley Isley-cum-Langley No. 1 Site Lockington/Hemington Long Whatton) Diseworth	3,255 50 2,579 616 760 385 101 52 482 1,142	3,062 50 2,299 511 649 - 43 52 402 495 279	134 - 217 21 - - - 16 17 59	- - - 214 - 58 - - -	59 - 63 84 87 385 3 - 64 160 132
TOTAL	9,422	7,842	464	24 58	1,034

#### DERWENT VALLEY WATER.

Report from 1 r. T. Stanford (riffin A. I.C.E. Engineer and Manager, Leicester Water Department.

There have been twelve samples of water examined by the Sheffield City Analyst at the Bamford Filters and a check for bacterial count as follows:-

I OLL OWS: -
1949.
December 3 non-faecal (before chlorination) November 6 " " " " " October Nil September Nil August Nil July Nil June Nil May Nil March Nil February 1 (after chlorination) non-faecal. January Nil
Report No.191/49 John Evans (A.H.Allen & Partners)
REPORT. on a sample of Water received from Mr. R. N.S. Thompson, , The Derwent Valley Water Board, Bamford, on February 11th. 1949.
MARK From outlet of Burbage Syphon. 10.2.49.
PHYSICAL CHARACTERS.
Suspended Matter none Appearance of a column 2 ft.long very faintly yellowish Hazen Colour 5.0 Taste normal Odour none
CHEMICAL EXAMINATION Parts 1 100,000
Total Solids dried at 180 °C
BACTERIOLOGICAL EXAMINATION.

February 25th. 1949.

B.Coli Test (MacConkey's Bile Salt Lactose Broth) Probable number of coliform

organisms per 100 m .. ...

# WATER SUPPLY OBTAINED FROM LOUGHBOROUGH CORPORATION

Report from Mr. W. Granger. M.I.C.E. Surveyor and Water Engineer, Loughborough.

Monthly samples were taken for bacteriological examination and six monthly for complete analysis, all of which were satisfactory.

#### THE COUNTIES PUBLIC HEALTH LABORATORIES

66, Victoria Street, LONDON, S.W.1.

### Ref. D/HR/10.

ANALYSIS OF A SAMPLE OF WATER received on 22nd December, 1949. from Loughborough Corporation Labelled Fuller & Hambly's Factory, Hathern, Blackbrook. (Filtered Water) Date 21/12/49 4.5 p.m. Taken by A. Litten Witness W. Sheffield Signed A. Litten. CHEMICAL RESULTS IN PARTS PER MILLION Appearance Bright with very few mineral particles. Turbidity (Silica Scale) Less than 5 Colour (Hazen) 20 Odour Nil Reaction pH 7.2 Free Carbon Dioxide 7 Electric Conductivity at 20°C 310 Total Solids, dried at 180°C 210 Chlorine in Chlorides 16 Alkalinity as Calcium Carbonate 75 Hardness: Total 165 Carbonate 75 Non-carbonate 90 (Permanent) (Temporary) Nitrogen in Nitrates 2.4 Nitrogen in Nitrites Less than 0.01 Oxygen absorbed 2.2 Free Ammonia 0.008 in 4 hrs. at 27°C\_ Albuminoid Ammonia 0.13 Residual Chlorine Absent Metals Iron 0.03 Other metals absent.

#### BACTERIOLOGICAL RESULTS.

(Sampling bottles are treated to remove residual chlorine if present).

Number of Colonie on Agar	es develop	ing ( 1 day ( 4	at 37°C. 2 days per ml6	at 37°C. 3 days at 20°Cper ml7per ml
Presumptive Coli-	- 20402040 <i>8</i> -	Present in.	Absent from	Probable number.
rresumperve corr-	reaction	ml.	100 ml.	0 per 100 ml.
Bact.coli (Type ]	L)	_ ml.	n	0 per 100 ml.
Cl.welchii React:	ion	ml.	100ml.	

This sample is practically clear and bright in appearance, neutral in reaction and free from metals apart from a negligible trace of iron. The water is moderately hard in character and it contains no excess of salinity or mineral constituents in solution. It shows appreciable but not pronounced colour, is of passable organic quality and of a high standard of bacteral purity.

The water is considered wholesome in character and suitable for drinking and domestic purposes.

GORDON MILES.

for The Countles Public Health Laboratories.

5th January. 1950.

#### WATER SUPPLY OBTAINED FROM

#### LONG EATON URBAN DISTRICT COUNCIL.

The first of the two following reports was from the Castle Donington Reservoir. The water had been treated by chlorination, as had been customary for some years.

The second report indicates that there is a slight contamination of the raw water taken at Stanton-by-Bridge Waterworks. This was, of course, adequately controlled by chlorination.

The reports were supplied to me by Mr. Francis Turner, M.I.Mun.E., A.M.T.P.I., Surveyor and Waterworks Manager, Long Eaton.

LONG EATON URBAN DISTRICT COUNCIL.

REPORTS BY COUNTY BACTERIOLOGIST ON WATER IN THE NEW RESERVOIR, CASTLE DONINGTON

			mage-way, requestors		energia es que serableces					i
Bacteriologically the sample of water is for drinking purposes.	Suitable	æ	E	8	2	Satisfactory	Suitable.	=	æ	±
Plate Counts	Not done	=	æ	Que Que	<u>~</u>	e tu	22	t	£	#
Differential Coliform test. Probable number of Faecal B.Coli per 100 ml.	1	Ì	1	i	1	1	ì	1	1	1
Presumptive Coliform Count, Probable number of coliforn bacilli present per 100 ml.	LiN	2	Ξ	5	z	*	12	=	=	11
CL.Welchii	Not done	=	=		**	=	#	=	2	2
hours	Н	19 <b> 4</b>	Н	47	15/4	Н	Н	큠	7.	랴
Date	Jan. 31/49	Feb.28/40	Mar. 28/49	May 30/49	Jun 27/49	4/62.guy	Sep.26/49	0ct.31/49	Nov.28/49	Jen. 2/50

Francis Turner,

Engineer and Surveyor.

Town Hall, Long Eaton. 15th Jehmary, 1950.

#### DERBYSHIRE COUNTY COUNCIL.

#### PUBLIC HEALTH DEPARTMENT.

Ref.PH/P/KW.

County Offices, St. Mary's Gate, Derby. 7th September 1949.

#### REPORT OF EXAMINATION OF SAMPLE OF WATER

Sample of water labelled. Stanton-by-Bridge Waterworks Pumping Station.

Before treatment.

Received from Long Eaton U.D.C. (Mr. Turner).

Date of receipt 29th August, 1949.

#### RESULTS OF CHEMICAL ANALYSIS.

#### Parts per 100,000

Total Solid	Matter (Dried at 180°C.)	50.8	
Free and Sal	ine Ammonia	0-0060	
	nmonia,	0.0020	
Nitrogen as I	Nitritesvei	cy faint	trace
	Nitrates	0.5	
		_	
Chlorine (Pro	esent as chloride)	2.9	
Oxygen absort	bed in four hours		
	o <sup>o</sup> fahr	0.004	
c. 0 O	Tratter or occession of a second	0.004	
	Temporary	24.5	
TT . 3			
Hardness	Permanent	13.5	
	Total	38	
1 7			
Metals	Iron	0.020	

In appearance the sample was slightly turbid and of a faint yellowish green colour.

The analytical results show the water to be of doubtful quality.

#### RESULTS OF BACTERIOLOGICAL EXAMINATION.

This water shows slight contamination which is being adequately controlled by chlorination.

After consideration of the reports of the County Analyst and the Bacteriologist, I am of opinion that the sample of water submitted on the 29th August was of doubtful quality. It is important, however, to note that this sample was taken before treatment. The Bacteriologist's report on a sample after treatment has been forwarded to you under separate cover (Report No.428) and this shows that chlorination has dealt adequately with the slight contamination.

(Signed) V.J. Woodward.

Deputy County Medical Officer.

#### SEWERAGE.

Public enquiries were held in respect of the following post war sewerage and sewage disposal schemes :-

Parish.	Estimated Cost of Scheme	Date of Enquiry	
Long Whatton and Diseworth	£32,460	13/1/1949	

This scheme was approved in principle subject to certain amendments, but a letter was received on the 9th January, 1950 from the Ministry of Health stating that in view of restrictions in the investment in capital Morks in this country, the scheme must be deferred for at least twelve months.

Breedon-on-the-Hill and Tonge	£21,490	
Wilson	£ 6,480	13/10/49

With regard to this combined scheme, the portion dealing with Breedonon-the-Hill and that part of the village of Tonge West of the railway, was approved in principle. The remainder of the scheme dealing with the part of Tonge East of the railway and the village of Wilson was not approved due to the high capital cost for each property likely to be connected.

Permission to proceed with the approved part of the scheme has not yet been received.

#### WEAT AND OTHER FOODS.

The district contains no licensed slaughterhouses, but has one knacker yard which was inspected on twelve occasions. No inspections of casual slaughter of pigs were carried out.

Number	of Meat Stores, sh	ops inspected	39
	where food other t		
is ker	pt or prepared for	sale	58

During the year various small items of food were inspected and voluntarily surrendered by the owners.

Meat coming into the district is inspected at Coalville.

